

Need for Dec Orders.

Work Order ID 138616

138616

Page 1

Item ID: 647.7612

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Breakaway Tip

Start Date: 11/4/2015 Start Qty: 10.00

10

Cust Item ID:

Required Date: 11/18/2015 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: SH Date: 20151104

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.7600	N/C								

100

0.00

100

BAND SAW

Bandsaw

Memo

0.01

Jeaspa Bandsaw

Cut Blank at 14.200"

*** ONE BLANK MAKES TWO PARTS***

5 0 SL15-11-10

110

0.00

110

HAAS CNC VERTICAL MACHINING #1

HAAS 1

Memo

0.02

HAAS CNC vertical machine #1

1-Machine per folio FB404

DWG REV: WCFOLIO REV: AA

2- deburr and break all sharp edges

10 0 SL15-11-11

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Description Work Order Deviation		Disposition			

Root Cause			FAULT CATEGORY		
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐				

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 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 *120* QC Quality Control	QC1- Inspection performed by CMM Memo Inspect on CMM as per folio CMMA006. DWG REV: <u>N/C</u> CMM PROG. REV: <u>N/C</u>	0.00 0.01				<u>10</u>	<u>0</u>		DAS 14 9-89 15/12/10
130 *130* QC Quality Control	QC8- Inspect parts - second check Memo	0.00 0.00				<u>10</u>	<u>0</u>		DAS 08 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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 Start Date: 11/4/2015 Start Qty: 10.00 ***10*** Cust Item ID:
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140	Outsource process-Anodize per QSI017 4.1.10.1	0.00							
140									
Outsource4	Memo	10.00							
Outsource process - Anodize	Issue P/O to ATG : <u>30730</u>								
	1- Black Anodize as per Dwg 647.7600								
	2- PRIME AS PER DWG, SEE NOTE #7 (**DISREGARD AFTER ASSEMBLY**)								
	Certification of Comformity is required								
150	Receive & Inspect for Damage & Mat'l Certs	0.00							
150									
Packaging	Memo	0.00							
Packaging									

CL DEC 14 2015 10

DEC 16 2015

6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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155	QC5- Inspect part completeness to step on W/O	0.00							
155									DAS
QC	Memo	0.00							9
Quality Control									9-89
						DEC 16 2015		(10)	
180	Identify as per dwg & Stock Location	0.00							
180									
Packaging	Memo	0.00							
Packaging	***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***								
						10		DEC 17 2015	
190	QC21- Final Inspection - Work Order Release	0.00							
190									
QC	Memo	0.02							
Quality Control									
						MLJ		DEC 18 2015	

MLJ DEC 18 2015

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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																		
Description Work Order Deviation				Disposition																					

Root Cause <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Environment ☐</td> <td style="width:15%;">No Re-verification ☐</td> <td style="width:15%;">Pressure/Forced ☐</td> <td style="width:15%;">Temperature/Cure ☐</td> <td style="width:15%;">Power Loss/Surge ☐</td> <td style="width:15%;">Positioned Wrong ☐</td> </tr> <tr> <td>Design ☐</td> <td>Operator ☐</td> <td>Bending ☐</td> <td>Set-up ☐</td> <td>Folio/Program ☐</td> <td>Outside Dimensions ☐</td> </tr> <tr> <td>Doc/Data ☐</td> <td>Offset/Setup ☐</td> <td>Centre Not Concentric ☐</td> <td>BOM/Route ☐</td> <td>Grain ☐</td> <td>Over/Under tolerance ☐</td> </tr> <tr> <td>Equip/Tooling ☐</td> <td>Supplier ☐</td> <td>Cracks ☐</td> <td>Broken/Damage/Defect ☐</td> <td>Weld ☐</td> <td>Part Incorrect ☐</td> </tr> <tr> <td>Handling/Pre ☐</td> <td>Training ☐</td> <td>Crimp/Kink/Ripple/Wave ☐</td> <td>Inspection Incomplete/Unqualified ☐</td> <td>Wrong Stock Pulled ☐</td> <td>Part Lost/Missing ☐</td> </tr> <tr> <td>Material ☐</td> <td>Use for Testing ☐</td> <td>Cuffs ☐</td> <td>Contamination ☐</td> <td>Out of Sequence ☐</td> <td>Part Moved ☐</td> </tr> <tr> <td>Internal Transport ☐</td> <td>Poor Information ☐</td> <td>Crushing ☐</td> <td>Countersink ☐</td> <td>Off-set ☐</td> <td>Drawing ☐</td> </tr> <tr> <td>Tribal Knowledge ☐</td> <td>Rushing ☐</td> <td>Heat Treat ☐</td> <td>Cut Too Short ☐</td> <td>Mislabeled ☐</td> <td>Finish ☐</td> </tr> <tr> <td>LOA ☐</td> <td>Product Improvement ☐</td> <td>Wave/Twist in Tube ☐</td> <td>Instructions Incomplete/Unclear ☐</td> <td>Fit/Function ☐</td> <td>Misread ☐</td> </tr> <tr> <td>Substation ☐</td> <td>Process Improvement ☐</td> <td>Marks/Chatter ☐</td> <td>Drill Holes ☐</td> <td>Misaligned/off center ☐</td> <td>Turning Sequence ☐</td> </tr> <tr> <td>Past Expiry Date ☐</td> <td>Manufacturing Process ☐</td> <td colspan="4"></td> </tr> <tr> <td>Misidentified ☐</td> <td>Past Due ☐</td> <td colspan="4" style="text-align: center;">OTHER :</td> </tr> </table>				Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐					Misidentified ☐	Past Due ☐	OTHER :				FAULT CATEGORY <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Power Loss/Surge ☐</td> <td style="width:15%;">Positioned Wrong ☐</td> </tr> <tr> <td>Folio/Program ☐</td> <td>Outside Dimensions ☐</td> </tr> <tr> <td>Grain ☐</td> <td>Over/Under tolerance ☐</td> </tr> <tr> <td>Weld ☐</td> <td>Part Incorrect ☐</td> </tr> <tr> <td>Wrong Stock Pulled ☐</td> <td>Part Lost/Missing ☐</td> </tr> <tr> <td>Out of Sequence ☐</td> <td>Part Moved ☐</td> </tr> <tr> <td>Off-set ☐</td> <td>Drawing ☐</td> </tr> <tr> <td>Mislabeled ☐</td> <td>Finish ☐</td> </tr> <tr> <td>Fit/Function ☐</td> <td>Misread ☐</td> </tr> <tr> <td>Misaligned/off center ☐</td> <td>Turning Sequence ☐</td> </tr> </table>						Power Loss/Surge ☐	Positioned Wrong ☐	Folio/Program ☐	Outside Dimensions ☐	Grain ☐	Over/Under tolerance ☐	Weld ☐	Part Incorrect ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Out of Sequence ☐	Part Moved ☐	Off-set ☐	Drawing ☐	Mislabeled ☐	Finish ☐	Fit/Function ☐	Misread ☐	Misaligned/off center ☐	Turning Sequence ☐
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Picklist Print

November 04, 2015 3:29:15 PM

Page 1

Work Order ID: 138616

138616

Parent Item: 647.7612

647 7612

Parent Item Name: Breakaway Tip

Start Date: 11/4/2015

Required Date: 11/18/2015

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP REV:A NEW ISSUE 15/08/04 JFS VERIFIED BY: JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

M7075T6B0.375X3.000

Purchased

No

f

40.0750

6.242105

M7075T6B0 375X3 000

SL 15-11-10

7075-T6 Plate 0.375" X 3.000", QQ-A 250/12

Location

Loc Qty

Loc Code

MAT005

40.075

m126390

16.075

m130098

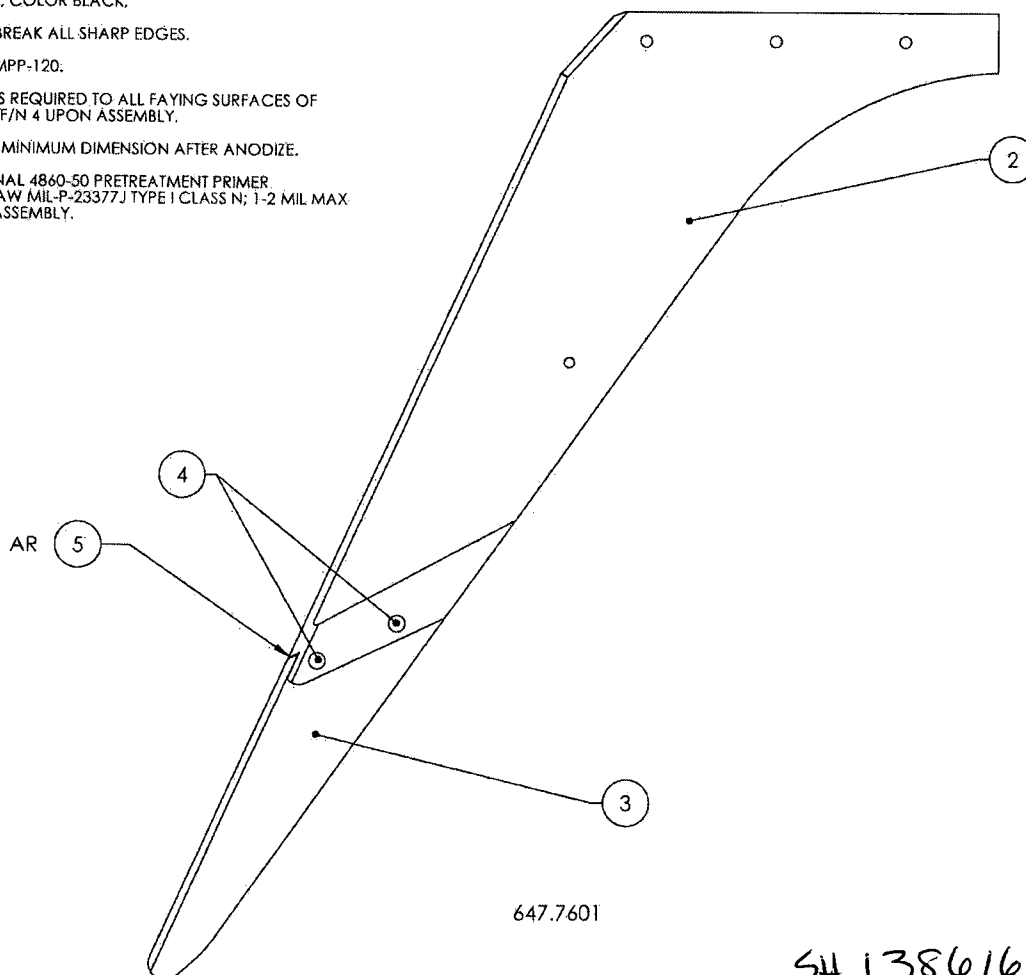
24

5.95

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NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
3. DEBURR AND BREAK ALL SHARP EDGES.
4. IDENTIFY IAW MPP-120.
- 5 APPLY F/N 5 AS REQUIRED TO ALL FAYING SURFACES OF F/N 2, F/N 3 & F/N 4 UPON ASSEMBLY.
- 6 MAXIMUM OR MINIMUM DIMENSION AFTER ANODIZE.
- 7 FINISH: CARDINAL 4860-50 PRETREATMENT PRIMER PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX AFTER ASSEMBLY.



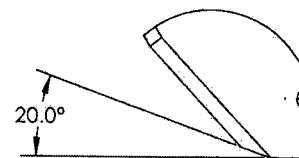
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE REVISED: FR3		N/C
N/C	INITIAL RELEASE	12/22/99	P. BRAVO

A/R	5	601.2045	RTV, LOCTITE 598		
2	4	601.3122	RIVET	MS20470AD-14	
1	3	647.7612	BREAKAWAY TIP	△	△
1	2	647.7611	LOWER DEFLECTOR	△	△
	1	647.7610	UPPER DEFLECTOR	△	△ △
△		647.7601	LOWER DEFLECTOR ASSY		△
7601	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
QTY		PARTS LIST			
NEXT ASSY (S)		ORIGINAL DATE (MM/DD/YY)	11/25/99	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
647.7400		DRAWN BY	A. QUAN		
647.7500		CHECKED	P. BRAVO		
		APPROVAL	11/22/99		
		CONTRACTING NO.		DEFLECTORS SCALE NONE	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5°			
		SITE	CODE CODE	DRG. NO.	REV.
		B	07M26	647.7600	N/C
					SHEET 1 OF 4

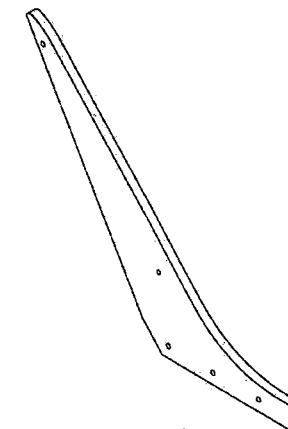
SH 138616.
20151104

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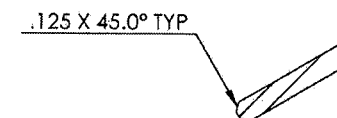
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



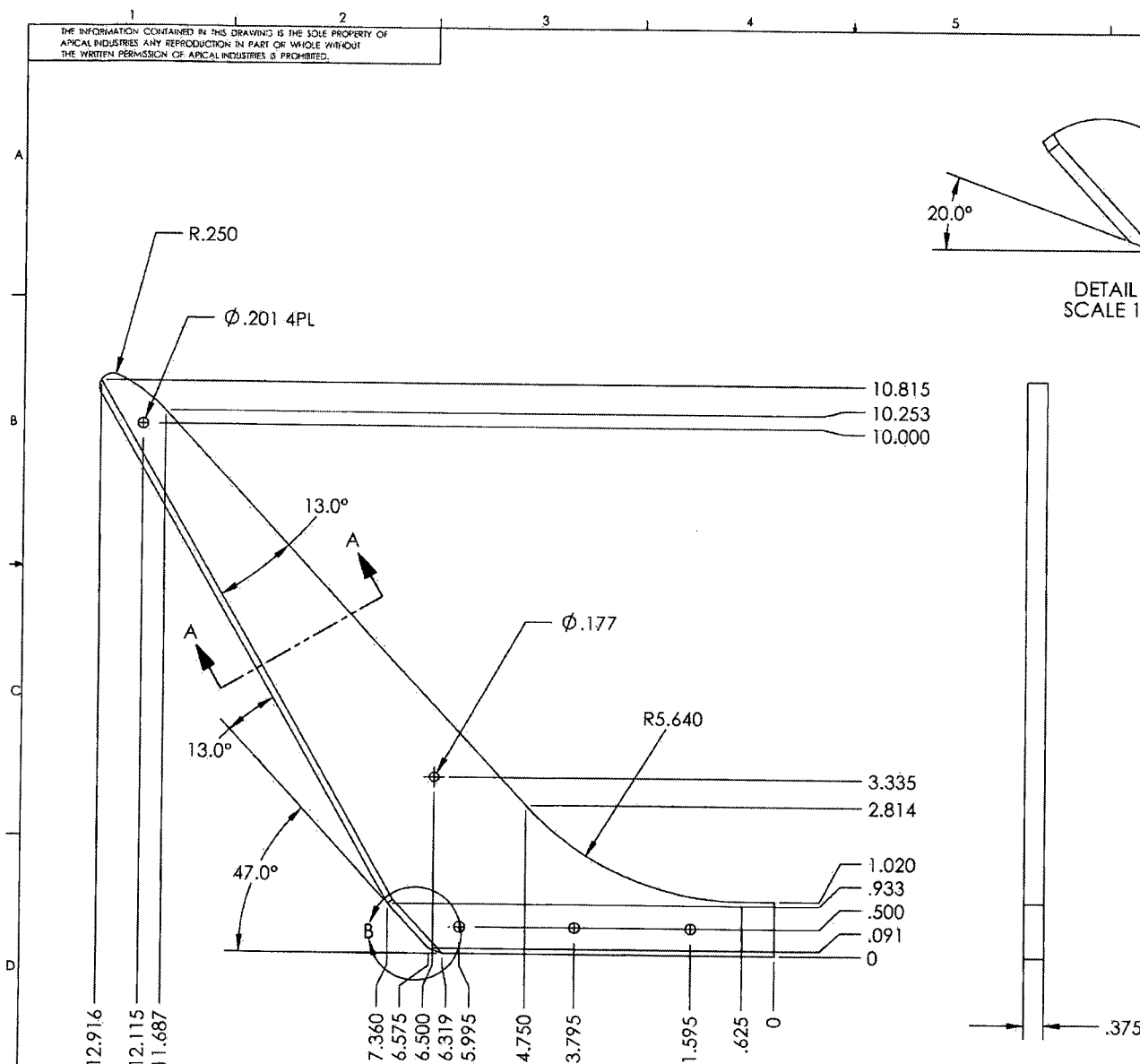
DETAIL B
SCALE 1 : 1



647.7610



SECTION A-A
SCALE 1 : 2



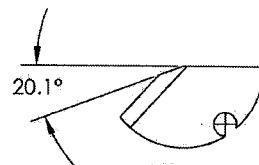
ORIGINAL DATE 11-28-00		APICAL INDUSTRIES	
DRAWN BY A. GUAN		2608 TEMPLE HEIGHTS DR.	
CHECKED BY P. BRAVO		OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DRAWING APPROVAL P. BRAVO		DEFLECTORS	
CONTRACT NO.		DWG. NO. 647.7600	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS SLO. FRACTIONS DECIMALS SLO. ANGLES ± .5°		REV. 07/02/06	REV. N/C
SCALE NONE		SHEET 2 OF 4	

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

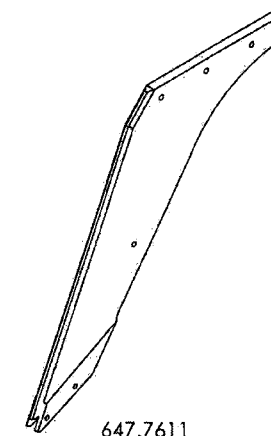
.078 X 45.0° TYP

SECTION C-C
SCALE 1:2



DETAIL D
SCALE 1:1

Ø.201



647.7611

TRUE R.100

.146
.042
0

R.250

DETAIL E
SCALE 1:1

TRUE R.100 2PL

.376^{+0.002}
-.000

.560

(.092 2PL)

△ .374 MIN

ORIGINAL DATE
8/20/2018 11:23:09
DRAWN BY: A. DIZAN
CHECKED: P. BRAVO
DESIGNED: J. GARCIA
DATE: 8/20/2018
CONTRACT NO.

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

DEFLECTORS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.02
3 PLACE DECIMALS ±.010
ANGLES ±.5°

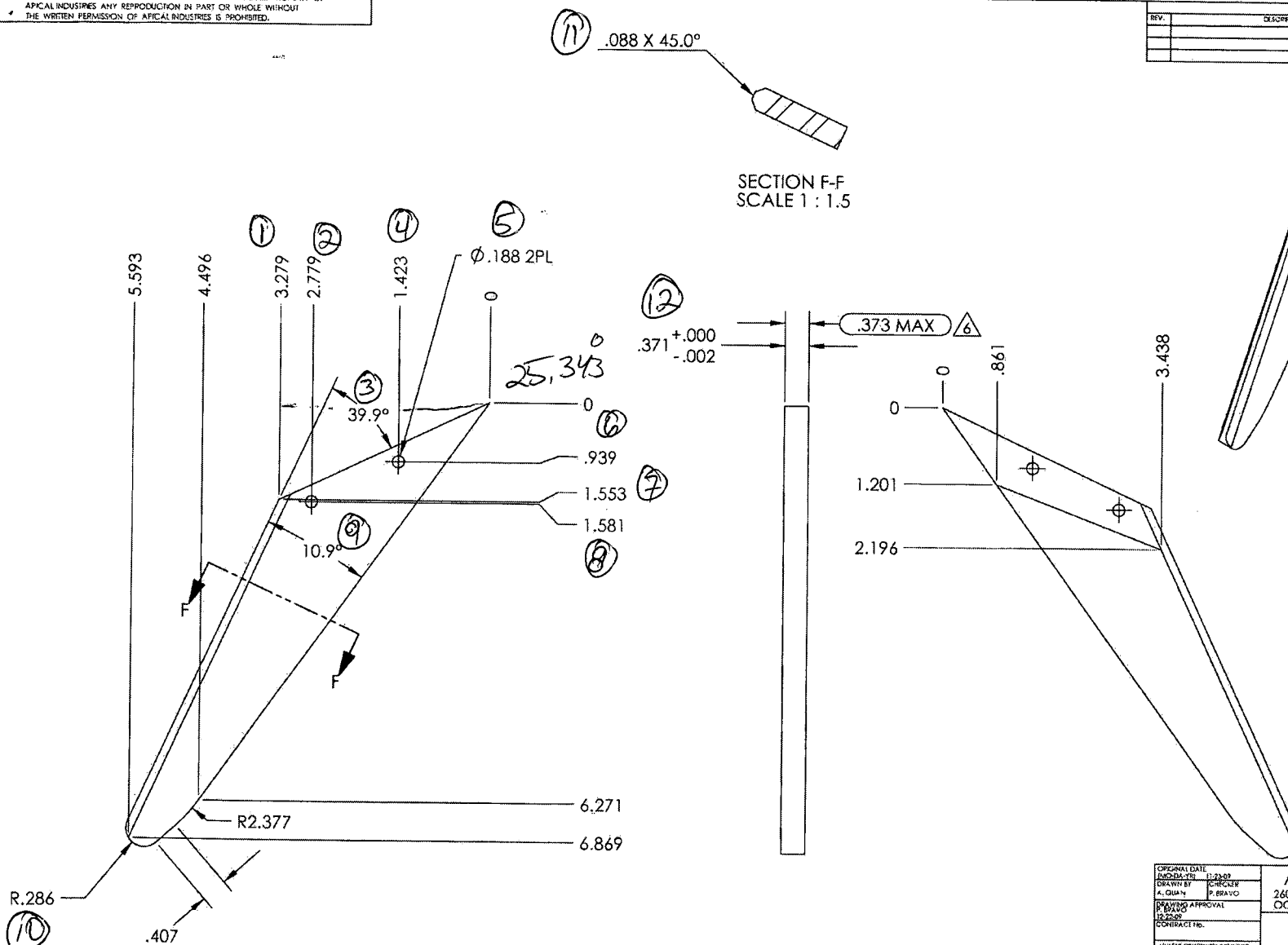
SEE CASE CODE B 07M76 DWG NO. 647.7600 REV. N/C
SCALE NONE SHEET 3 OF 4

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

SECTION F-F
SCALE 1:1.5

647.7612



ORIGINAL DATE
APPROVAL
DRAWN BY
CHECKED BY
DESIGNED BY
CONTRACT NO.

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

DEFLECTORS

SHEET 4 OF 4
SCALE NONE
DWG. NO. 647.7600
REV. N/C

FIRST ARTICLE INSPECTION CHECKLIST

Measured by: <u>SL</u>	Audited by: <u>D.A.</u>	DAS	Preliminary Approval:
Date: <u>15-11-11</u>	Date: <u>15/12/10</u>	<u>08</u> <u>9-29</u>	Date:

Jean Francois Sauve

From: Pablo Bravo
Sent: July-31-15 12:56 PM
To: Jean Francois Sauve
Cc: Jean-Luc Menard; Mario Poulin; Jason Gardiner; Alex Quan
Subject: RE: 135 CCK
Attachments: 647.7611.jpg; 647.7612.jpg

JF,

Go with the dimension on the models. It looks like this has to do with the way Solidworks interprets the feature on the drawing. We'll have to make a correction to the drawing file.

Jason/Alex, can you guys add this to the list of drawing changes that need to be implemented?

Thanks,

Pablo

From: Jean Francois Sauve
Sent: Friday, July 31, 2015 4:46 AM
To: Pablo Bravo
Cc: Jean-Luc Menard; Mario Poulin
Subject: FW: 135 CCK

Good morning Pablo,

We would need a response for those 135 deflector as soon as possible since they need to be manufactured 1st thing next week.

Thanks
J.F.

From: Jean Francois Sauve
Sent: July-29-15 11:43 AM
To: Pablo Bravo <pbravo@dartaero.com>
Cc: Jean-Luc Menard <jmenard@dartaero.com>
Subject: 135 CCK

Hi Pablo,

Concerning 647.7811 / .7812 Deflectors. The Chamfer called on the dwg. doesn't reflect the Cad model. Both are at 1/8" x 45 deg. on the Cad model.

Please let me know if I go with the Cad. model or the dwg.

Thanks

JEAN-FRANÇOIS SAUVÉ
Production Engineering Coordinator



Part Number: 647.7612	Rev: N/C	- Page 1 -
Description: DEFLECTORS	Inspection Dwg: 647.7600	Work Order: 138616

Item Ref.	Nominal	Tolerance	No. Piece_1 Actual	No. Piece_2 Actual	No. Piece_3 Actual	No. Piece_4 Actual	No. Piece_5 Actual
1	3.2790	+0.0100/-0.0100	3.2792	3.2823	3.2825	3.2825	3.2777
2	2.7790	+0.0050/-0.0050	2.7769	2.7818	2.7818	2.7823	2.7773
3	39.9000	+0.5000/-0.5000	39.8767	39.8798	39.8913	39.8826	39.8750
4	1.4230	+0.0050/-0.0050	1.4216	1.4274	1.4245	1.4253	1.4204
5	0.1880	+0.0050/-0.0010	0.1887	0.1893	0.1894	0.1891	0.1884
6	0.9390	+0.0050/-0.0050	0.9404	0.9429	0.9404	0.9409	0.9389
7	1.5530	+0.0100/-0.0100	1.5531	1.5546	1.5546	1.5546	1.5524
8	1.5810	+0.0050/-0.0050	1.5820	1.5832	1.5815	1.5838	1.5820
9	10.9000	+0.5000/-0.5000	10.8634	10.8580	10.8671	10.8567	10.8566
10	0.2860	+0.0100/-0.0100	0.2854	0.2858	0.2857	0.2854	0.2854
D11	0.125	+0.010/-0.010	0.125	0.125	0.125	0.125	0.125
D12	0.371	+0.000/-0.002	0.370	0.371	0.371	0.371	0.370

Measured by:
Mathieu Lamarche

Date:
2015-12-10

Audited by:

Date:



Part Number: 647.7612	Rev: N/C	- Page 1 -
Description: DEFLECTORS	Inspection Dwg: 647.7600	Work Order: 138616

Item Ref.	Nominal	Tolerance	No. Piece_6 Actual	No. Piece_7 Actual	No. Piece_8 Actual	No. Piece_9 Actual	No. Piece_10 Actual
1	3.2790	+0.0100/-0.0100	3.2806	3.2797	3.2801	3.2822	3.2759
2	2.7790	+0.0050/-0.0050	2.7803	2.7790	2.7806	2.7814	2.7758
3	39.9000	+0.5000/-0.5000	39.8871	39.8770	39.8857	39.8854	39.8805
4	1.4230	+0.0050/-0.0050	1.4235	1.4227	1.4243	1.4250	1.4188
5	0.1880	+0.0050/-0.0010	0.1885	0.1886	0.1887	0.1895	0.1884
6	0.9390	+0.0050/-0.0050	0.9412	0.9395	0.9412	0.9419	0.9392
7	1.5530	+0.0100/-0.0100	1.5537	1.5533	1.5535	1.5545	1.5515
8	1.5810	+0.0050/-0.0050	1.5817	1.5813	1.5818	1.5832	1.5808
9	10.9000	+0.5000/-0.5000	10.8745	10.8662	10.8494	10.8579	10.8489
10	0.2860	+0.0100/-0.0100	0.2857	0.2855	0.2857	0.2856	0.2854
D11	0.125	+0.010/-0.010	0.125	0.125	0.125	0.125	0.125
D12	0.371	+0.000/-0.002	0.371	0.371	0.371	0.370	0.371

Measured by:
Mathieu Lamarche

Date:
2015-12-10

Audited by:

Date:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO30730

Purchase Order Date 12/14/2015

PO Print Date 12/14/2015

Page Number 1 of 2

Order From :

VC-ATG001

Ship To : DART AEROSPACE LTD

A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE ROAD
ROCKLAND, ON K4K 1T2
CANADA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

613-446-4544

Ship To Contact

Ship To Phone

Ship Via:

VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA -- (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
Line Comments			Promise Date				
Delivery Comments							

1	136265	646.3010 LH HALF rev. n/c	12/16/2015		10.00	\$13.85	\$138.50
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Yes

12/16/2015

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-P-23377J TYPE 1 CLASS N

Line Total: \$138.50

2	136653	646.3011 RH HALF REV. N/C	12/18/2015		6.00	\$13.85	\$83.10
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Yes

12/18/2015

Line Total: \$83.10

3	138616	647.7612 BREAKAWAY TIP REV. N/C	12/18/2015		10.00	\$13.84	\$138.40
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Yes

12/18/2015

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-P-23377J TYPE 1 CLASS N

Note:

12/14/2015

ATG

INDUSTRIES INC.

A.T.G. Industries Inc.
731, rue Industrielle Rd.
PLATING DEPARTMENT
Rockland, On K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

To

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7
Canada

Pack List

Number: 64044

Date: 16-Dec-15

Ship To

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7
Canada

Ph: 613-632-5200

Fax: 613-632-1185

Ph: 613-632-5200

Fax: 613-632-1185

Terms -		Ship Via
Quantity	Description	
10 ea	Part: 646.3010 LH HALF HARD ANODIZE AS PER MIL-A-8625 TY III, CLASS 2 PRIME AS PER MIL-P-23377J TYPE I CLASS N PRIMER IS SUPPLY BY THE CUSTOMER Job: 20150911 PO: PO30730	Rev: N/C Line:
6 ea	Part: 646.3011 RH HALF HARD ANODIZE BLACK MIL-A-8625 TYPE III CLASS 2 PRIME MIL-P-23377J TYPE I CLASS N PAINT IS SUPPLIED BY CUSTOMER Job: 20150912 PO: PO30730	Rev: / Line:
10 ea	Part: 647.7612 BREAKAWAY HARD ANODIZE BLACK MIL-A-8625 TYPE III CLASS 2 PRIME MIL-P-23377J TYPE I CLASS N Job: 20150913 PO: PO30730	Rev: / Line:
Certificate of Conformance A.T.G. Industries certifies that all items in this shipment are in conformance with all requirements, specifications and drawings referenced in the purchase order. ISO 9001 : 2008 REGISTERED ATG SALES-2010 TERMS APPLY DATE: 16/12/15		



A.T.G. Industries Inc.
731, rue Industrielle Rd.
PLATING DEPARTMENT
Rockland, On K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 64044

Date: 16-Dec-15

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HAWKESBURY, ON K6A 1K7
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Terms		Ship Via
Quantity	Description	
	CERTIFIED SIGNATURE: <u><i>[Signature]</i></u>	
	RECEIVER SIGNATURE: _____	